SHARP

DIGITAL AUDIO PLAYER

MODEL

WA-TR30(BK)/(W)
WA-TR300(BK)/(W)

OPERATION MANUAL

Plays Windows Media™

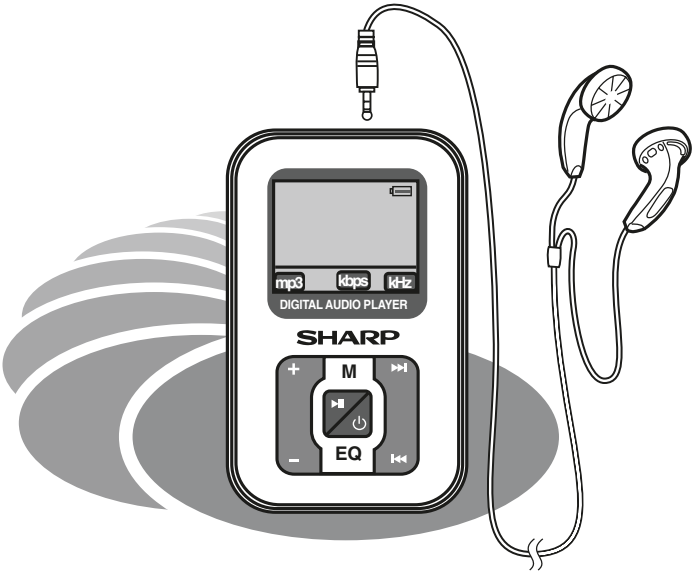
USB 2.0 INTERFACE

MP3

DIGITAL RECORDING for VOICE & FM TUNER

FM TUNER

FM TRANSMITTER



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SPECIAL NOTES

- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant law in your country.

Warning:
To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION:
At full power prolonged listening to a personal stereo may damage the user's hearing.
The model is in compliance with the law in case of using it with the SHARP earphones.

- The letters in brackets contained in the model number indicate the colour of the product only. Operation and specifications are unaffected.

Information on Proper Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dustbin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

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Introduction

Thank you for purchasing this SHARP product. For the best performance, read this manual carefully. It will guide you in operating your SHARP product.

Special notes

■ Trademarks

- IBM and PC/AT are registered trademarks of International Business Machines Corporation.
- Macintosh is a trademark of Apple Computer, Inc., registered in the United States and other countries.
- Microsoft Windows and Windows Media are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- All brand names and product names are trademarks or registered trademarks of their respective owners.

■ Audio data

- Back up your audio data stored on this product periodically in case of accidental loss or alteration.
- SHARP shall not be liable for any damages or loss of audio data resulting from defects in this product or your computer.

■ Note

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

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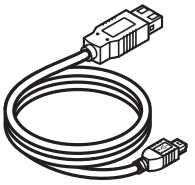
ENGLISH

General Information

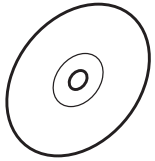
Accessories

Please confirm that only the following accessories are included.

Earphones x 1 (with the ear pads)

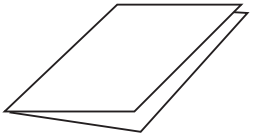


USB Cable x 1



CD-ROM x 1

- If you use a PC running Windows 98 Second Edition, install a USB driver from this supplied CD-ROM (see page 8).



Quick Guide x 1

Notes:

- USB cable may differ from illustrations shown above.
- Use the supplied earphones only.
- Use the supplied USB cable only (1m).

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Precautions

■ Important

- Do not wear your earphones when you are crossing streets or near traffic.
- Do not use earphones whilst driving a vehicle since it may be illegal or create a traffic hazard. Always follow safety regulations in your area.
- Do not play the unit at a high volume. Hearing experts advise against extended listening at high volume levels.

- Excessive sound pressure from earphones and headphones can cause hearing loss.
- If you experience ringing in your ears, reduce the volume or discontinue use.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 40°C (41°F - 104°F).

To avoid accidental electric shock or other possible problems, observe the precautions listed below.

- Do not disassemble or modify the unit.
- Do not drop or subject the unit to shock.
- Do not use the unit near open flames.
- Do not spill liquid on the unit.
- SHARP is not responsible for damage due to improper use. Refer all servicing to a SHARP authorised service centre.

Caution:

- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.

■ Storing the unit

Avoid using or leaving the unit in the following places.

- Places exposed to direct sunlight for many hours (especially in cars with the doors and windows closed) or near heaters. (The cabinet may deform, change colour or the unit may malfunction.)
- Places exposed to excessive dust.
- Places exposed to water.
- Places where temperatures are excessively high or low.
- Places (bathrooms) where the humidity is extremely high.
- Places with strong magnetic fields such as TVs or loudspeakers.
- Places exposed to vibration.
- Places where sand can easily enter the inside of the unit (beaches etc.).
- If the unit is used near radio tuners or TVs, noise and/or picture interference may result. If you experience these problems, move the unit away from such devices.

It is not recommended to put this unit into a rear pocket, as this may damage the product when sitting.

Using this unit near mobile phones may cause noise pickup. If it occurs, move it away from them.

■ Copyright

Copyright laws protect sounds, images, computer programmes, databases, other materials and copyright holders.
Duplicated material is limited to private use only. Use of materials beyond this limit or without permission of copyright holders may constitute copyright infringement, and be subject to criminal punishment.

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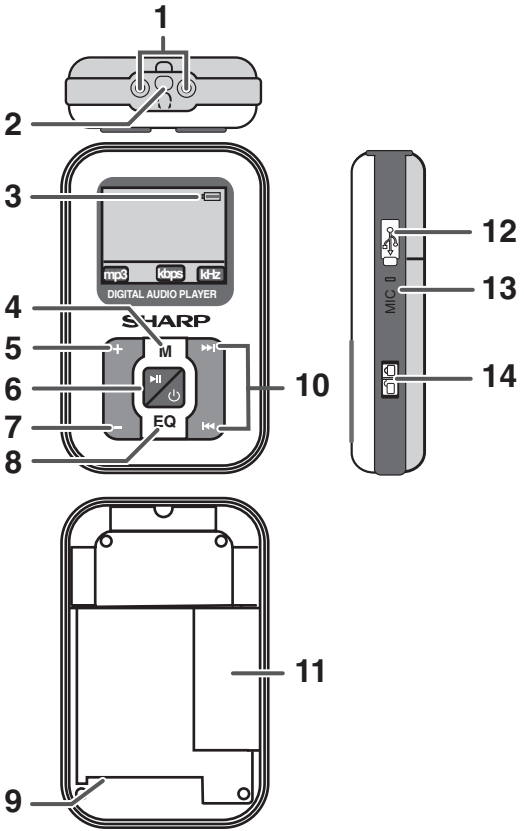
Controls and indicators



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Note:
To protect the USB port, cover it with the USB cap when not in use.

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System requirements

The following hardware and software are required to transfer audio data from a PC to the unit.

Hardware and software requirements *1

Computer	IBM PC/AT-compatible
OS	Microsoft® Windows® 98 Second Edition/ Millennium Edition/2000 Professional/XP Professional/XP Home Edition standard installation *2, Mac OSX 10.2.6 above
Software	Windows Media® Player 9 Series or 10
Drive	CD-ROM drive
Interface	Available USB port (USB 2.0/1.1)

*1 Operation is not guaranteed on all the compatible computers.

*2 Operation is not guaranteed on computers running upgraded OS or multiple OS with dual-boot.

Battery installation

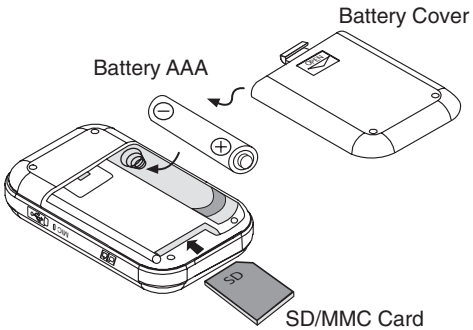
■ Storing the unit

1 Open the battery cover.

2 Insert the "AAA" battery according to the direction indicated in the battery compartment.

When inserting or removing the battery, push them towards the ⊖ battery terminal.

3 Close the battery cover.



Notes:

- Be sure to turn off the MP3 player before inserting or removing the SD/MMC card.
  If the set is on, removing or inserting the SD/MMC card can cause some data to be lost or the set to freeze or become inoperative. If this should be happen, please take out the battery for a whilst, insert it and restart the MP3 player.
- Installing the battery incorrectly may cause the unit to malfunction.
- Remove the battery if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.
- Replace the battery when it become weak and/or recording or playback is impaired.
- Do not use rechargeable battery (nickel-cadmium battery, etc.).
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Battery is not included.

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Preparation for Use

SD/MMC card installation

SD/MMC card installation

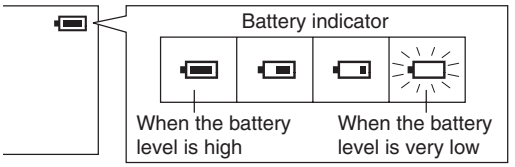
1. Open the battery cover.
2. Insert the SD or MMC card.
3. Close the battery cover.

Notes:

- SHARP will not be held liable for the loss of data whilst the SD/MMC memory device is connected to the audio system.
- Files compressed in MP3 and/or WMA format can be played back when connected to the SD terminal.
- This SD/MMC memory's format support FAT 16 or FAT 32.
- SHARP cannot guarantee that all SD/MMC memory devices will work on this audio system.
- The SD terminal in this unit is not intended for a PC connection but is used for music streaming with a SD/MMC memory device.
- The larger the capacity of the SD/MMC storage device, the longer it will take for the data to be read.
- SD/MMC card are not included.
- SD/MMC card cannot be operate if battery power is low.

■ Checking the remaining amount of battery level

The battery level is shown by the battery indicator during operation.



- When the battery level is very low, the battery indicator will flash. Replace the alkaline battery with a new one.
- When the battery has run out completely "Shut down..." will appear. Then, the power will be disconnected automatically.

Notes:

- The battery indicator will not correctly display the remaining capacity for approximately 10 seconds after the power has been turned on.
- The number of bars shown in the battery indicator may increase or decrease, depending on the operation being performed. This is normal.
- The battery life and the operating time may be shortened by usage conditions, long periods of disuse, etc.

Turning the unit on/off

■ To turn on the unit

Press the ►II / ⏻ button.

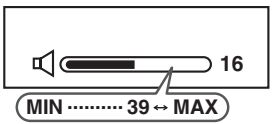
■ To turn off the unit

In any mode

1. Hold down the ►II / ⏻ button for 3 seconds or more.

■ Volume control

Whilst play or stop mode, press Volume (– or +) button to decrease or increase the volume.



■ Volume auto set-in

- If you turn off and on the main unit with volume set to 18 or higher, the volume will start at 18.
- If you turn the unit off then on again with the volume level set to less than 17, it will turn on again at the level set.

■ Back to previous level/screen

Press Volume (+) button for return to previous level/screen.

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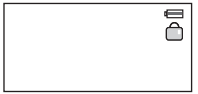
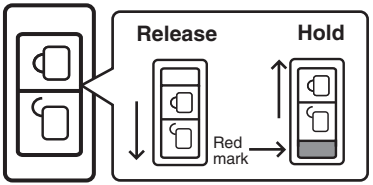
Hold function

When the hold function is turned on, all buttons on the unit will be inactive. To make changes to the operation of the unit, switch the HOLD off.

● Whilst on mode, lock icon will appear if hold function is active.



Move the HOLD switch to the safety position (direction indicated by the arrows).



Note:
If the hold function is active when the unit is turned off, the unit cannot be turned on by mistake and the battery will not be drained.

Changing the display language

You can see information in a selected language.

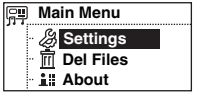
English (*)	Spanish
Russian	Italian
German	Chinese TRA
French	Portuguese

(*) indicates default setting

1 **Press ►II / ⏻ button to turn the power on.**

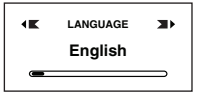
2 **Hold down the Menu button for 1 second or more to enter the main menu.**

3 **Within 20 seconds, press ⏮ or ⏭ button to select "Settings" and press Menu button.**



4 **Within 20 seconds, press ⏮ or ⏭ button to select "Language" and press Menu button.**

5 **Within 20 seconds, press ⏮ or ⏭ button to select the desired language and press Menu button.**



Note:
The display language setting is retained even after the unit is turned off.

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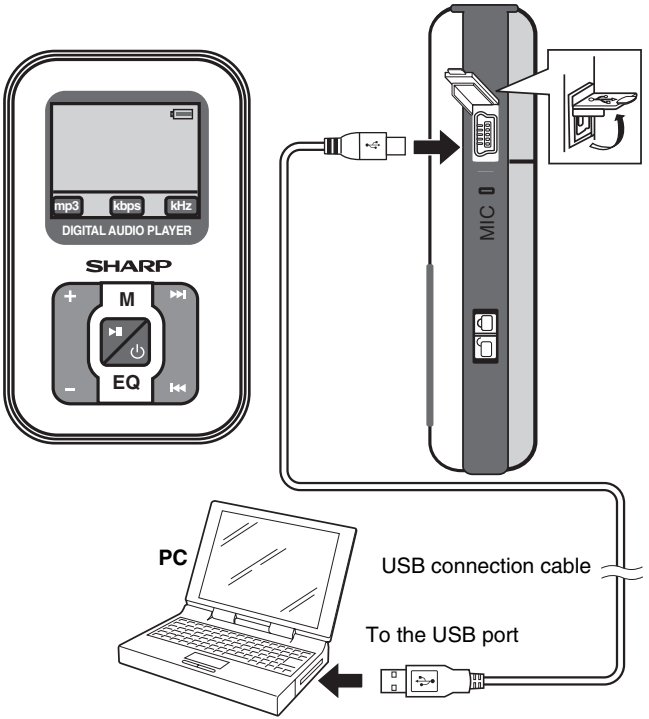
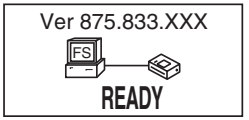
Connecting the unit to a PC



■ Connect the unit to a PC to transfer audio data

Open the USB port cover, connect the unit to a PC with a USB connection cable.
Whilst the unit is connected to the PC, the screen below appears.



Caution:

- Do not disconnect the USB cable whilst transferring audio data from a PC. Audio data on the unit may become corrupted.
- Operation is not guaranteed if the PC is connected to two or more USB devices.
- Connect the USB cable to the PC's USB port. If connected via a USB hub, operation cannot be guaranteed.
- We do not guarantee operation of the unit with self-built PCs or PCs with modified motherboards.
- Make sure to use the supplied USB cable. Use of other cables (two-way cables, extension cables, etc.) degrades the quality of connection and may cause a malfunction/radiation.

Note:
The operation buttons on the main unit do not work if it is connected to a PC. Disconnect from the PC to operate on the unit.

■ Installing a USB driver

If you use a PC running Windows 98 Second Edition, install a USB driver from the supplied CD-ROM.

- The installation is not necessary for a PC running Windows Millennium Edition, Windows 2000 Professional, Windows XP Professional or Windows XP Home Edition.

1	**Insert the supplied CD-ROM into your CD-ROM drive.**
2	**Connect the unit to a PC by USB cable.** The "The wizard searches for new drivers.." screen appears.
3	**Click the "Next" button.** The "What you want Windows to do?" screen appears.
4	**Select "Search for the best driver..." and click "Next" button.** The "Windows will search for new drivers..." screen appears.
5	**Select "CD-ROM drive" and click "Next" button.** The "Windows driver file search for the device" screen appears.
6	**Click the "Next" button.** The "USB Mass Storage Device..." screen appears.
7	**Click the "Finish" button.**

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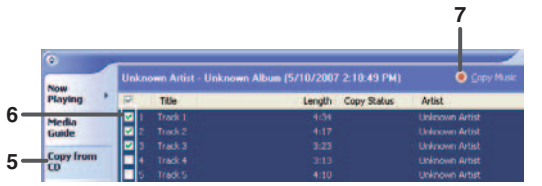
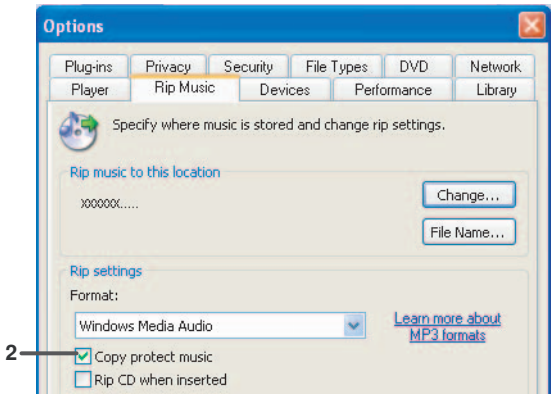
Ripping tracks from audio CD to PC

Using Windows Media Player, rip tracks from your favourite audio CDs to a PC. Ripped tracks are stored on PC as audio data. You can enjoy music on the unit by transferring audio data from the PC.

Windows Media Player 9





■ For Windows Media Player 9 Series

1	**Launch Windows Media Player.** Example: Start → All Programs → Windows Media Player
2	**On the "Tools" menu, click "Options..." and then "Copy Music" and select "Copy protect music".**
3	**Click "OK".**
4	**Insert an audio CD into the PC.** The audio CD may play automatically depending on settings on the PC. In this case, stop playback.
5	**Click "Copy from CD" on the taskbar to show tracks on the audio CD.**
6	**Select the check boxes of tracks to rip.**
7	**Click "Copy Music" to start ripping.**

Notes:

- For details on Windows Media Player, refer to its Users Guide.
- If the PC is connected to the internet, information (artist or album name, title, genre, etc.) appears. Information may not be available depending on the audio CD.

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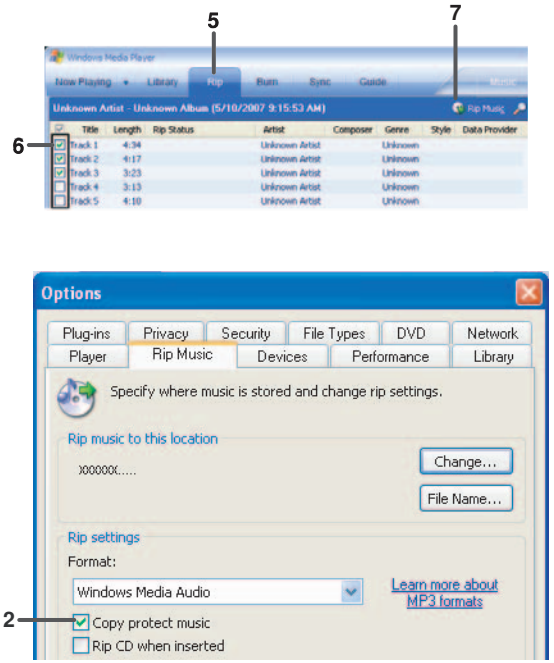
Ripping tracks from audio CD to PC (continued)

Windows Media Player 10



■ For Windows Media Player 10

1	**Launch Windows Media Player.** Example: Start → All Programs → Windows Media Player
2	**On the "Tools" menu, click "Options..." and then "Rip Music" and select "Copy protect music".**
3	**Click "OK".**
4	**Insert an audio CD into the PC.** The audio CD may play automatically depending on settings on the PC. In this case, stop playback.
5	**Click "Rip" on the taskbar to show tracks on the audio CD.**
6	**Select the check boxes of tracks to rip.**
7	**Click "Rip Music" to start ripping.**

Notes:

- For details on Windows Media Player, refer to its Users Guide.
- If the PC is connected to the internet, information (artist or album name, title, genre, etc.) appears. Information may not be available depending on the audio CD.

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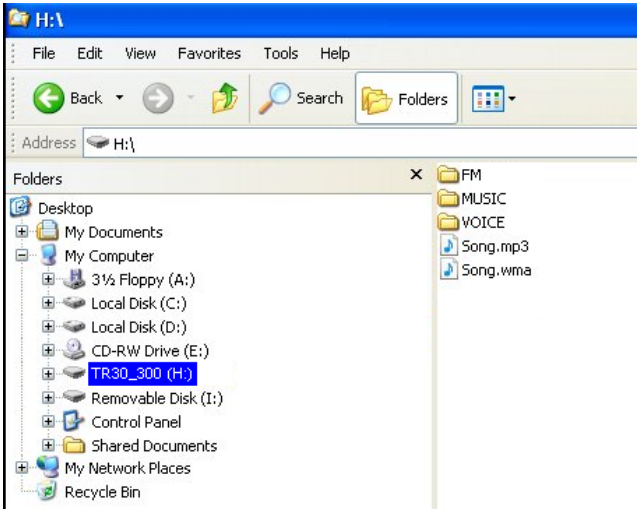
Transferring audio data from PC to the unit

You can transfer audio data (MP3, WMA or WAV format) to the unit or SD/MMC card.

1. Connect the unit to PC.
2. Open “My Computer” and copy or move the selected audio data to the unit (TR30_300) or SD/MMC card (indicated as “Removable Disc”).



Notes:

- This unit can be used as a USB storage device.
- “FAV.TXT” is system created file in the unit.

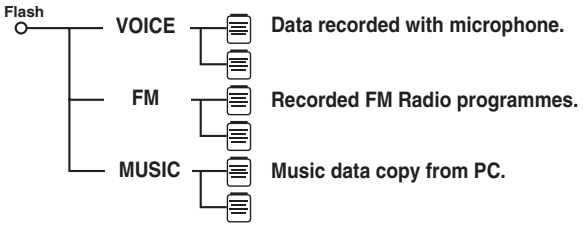
■ Folders

When using Windows Media Player 9 series, select the “MUSIC” folder to transfer the audio data.
Note:
You need to create Music Folder. Create them in the level indicated in “About folder tree”.

When using Windows Media Player 10, subfolders with an artist or album name are automatically created in the “MUSIC” folder.
Note:
To create subfolders with an artist or album name automatically, click ( ) to display properties and select “Create folder hierarchy on device”.

Click this to display properties

■ About folder tree



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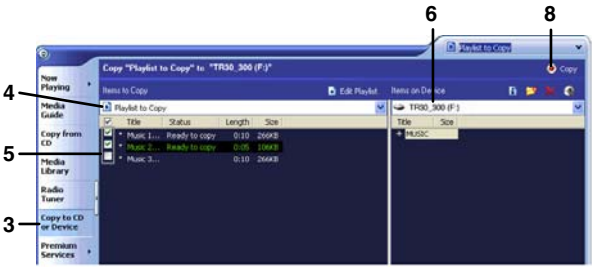
Transferring audio data from PC to the unit (continued)

You can enjoy music on the unit by transferring ripped audio files (protected) or licensed WMA files (DRM) from PC to the unit.

■ For Windows Media Player 9 Series



1	**Connect the unit to a PC (see page 8).**
2	**Launch Windows Media Player.** Example: Start → All Programs → Windows Media Player
3	**Click "Copy to CD or Device" on the taskbar.**
4	**From the drop-down list of "Items to Copy", window shown on the left, select a list with desired audio data.**
5	**Select the check boxes of audio data to transfer.**
6	**Set the unit as a destination.**
7	**Select the folder.** For folder, refer to page 15.
8	**Click the "Copy" button to start transfer.**

■ For Windows Media Player 10

1	**Connect the unit to a PC (see page 8).**
2	**Launch Windows Media Player.** Example: Start → All Programs → Windows Media Player
3	**Click "Sync" on the taskbar.**
4	**From the drop-down list of "Sync List", window shown on the left, select a list with desired audio data.**
5	**Select the check boxes of audio data to transfer.**
6	**Set the unit as a destination.**
7	**Click the "Start Sync" button to start transfer.**

Caution:

- On Windows Media Player 10 to create subfolders with an artist or album name automatically, click ☑ to display properties and select "Create folder hierarchy on device".
- Audio data on the unit is replaced by newly transferred audio data if their file names are the same.
- Refer to "Connecting the unit to the PC" or "Disconnecting the unit" when you connect/disconnect the unit to/from a PC.
- Do not disconnect the unit from the PC during transfer.

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Notes:
- Windows Media Player 9 & 10 installer are include in the supplied CD-ROM.
- For details on Windows Media Player, refer to its User Guide.
- The drive letter for the unit may change depending on the environment of the connected PC.

MP3 (MPEG-1 Audio Layer 3):
MPEG is an international standard developed by Moving Picture Experts Group, a working group of ISO.

WMA (Windows Media Audio):
WMA is an audio compression format developed by Microsoft Corporation.

About DRM (Digital Rights Management):
- This product supports Windows Media Digital Rights Management 9 Series. Using Windows Media Player 9 Series or 10, you can transfer licensed WMA files to the unit for playback.
- Some WMA files may not be playable/transferable onto this products due to their license agreements with copyright holders.
- Some audio data may not be playable on this products.
- When the SD/MMC card is installed the unit will not play DRM 10 protected music as mandated by Microsoft but DRM 9 or non DRM protected music will play normally.

File format of transferred audio data:
- Depending on the setting of Windows Media Player, audio data may be converted automatically for playback on portable devices.
- On Windows Media Player 10, you can change this setting and transfer audio data without conversion. To do so, click and select “Quality” to uncheck “Convert files as required by the device (recommended)”.
- For details on Windows Media Player, refer to its User Guide.

Disconnecting the unit

For details, refer to the operation manual for the PC.

■ Windows 98 Second Edition
1. Click “Safely remove hardware” on the taskbar.
2. Click “Safely remove USB Mass Storage Device-Drives(*:)”.
3. “Safely remove hardware” appears. Click the “OK” button and disconnect the USB cable from the PC.

■ Windows Millennium Edition
1. Click “Unplug or Eject Hardware” on the taskbar.
2. Click “Stop USB Disc-Drive(*:)”.
3. “Safe To Remove Hardware” appears. Click the “OK” button and disconnect the USB cable from the PC.

■ Windows 2000 Professional
1. Click “Unplug or Eject Hardware” on the taskbar.
2. Click “Stop USB Disc-Drive(*:)”.
3. “Safe To Remove Hardware” appears. Click the “OK” button and disconnect the USB cable from the PC.

■ Windows XP Home Edition/Professional
1. Click “Safely remove hardware” on the taskbar.
2. Click “Safely remove USB Mass Storage Device-Drives(*:)”.
3. “Safe To Remove Hardware” appears. Click the message and disconnect the USB cable from the PC.
   (*:) Drive letter of this unit.

Notes:
- After the above operation, the USB connection display still remains on the unit (the display changes when you disconnect the USB cable).
- If you cannot cancel the USB connection, try again or restart the PC.
- For Windows 98 Second Edition
  If the “Safely remove hardware” not appear on the taskbar, open the “Windows 98SE Driver” folder and click “w98eject” in the supplied CD-ROM.

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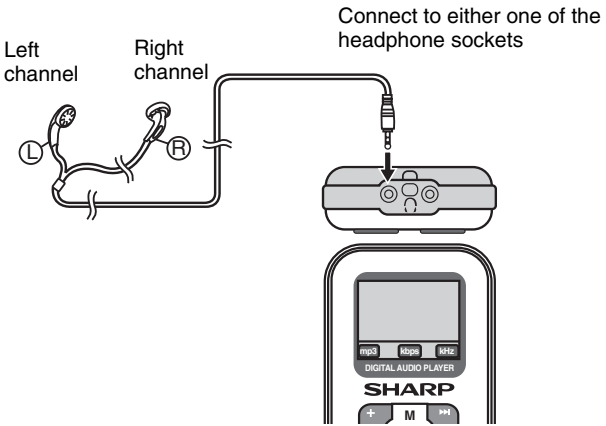
Playing transferred audio data

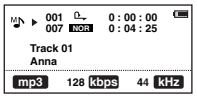


■ Playback

1 **Press ►II / ⏻ button to turn the power on.**

2 **Use the I◄◄ or ►►I button to select an audio data and press ►II / ⏻ button. Playback starts.**

(Playback Window)



To interrupt playback:
Press the ►II / ⏻ button.
To resume playback, press the ►II / ⏻ button again.

To stop playback:
Hold down ►II / ⏻ button for 1 second.

Resume play:
When you turn off the unit and turn it back on, playback starts from the beginning of the audio data which was stopped.

■ To locate the beginning of audio data

To move to the beginning of the next audio data:
Press the ►►I button.

To replay the current audio data:
Press the I◄◄ button.
Note:
To skip some data at one time, press the I◄◄ or ►►I button as many times as required until the desired audio data appears.

■ To locate the desired portion

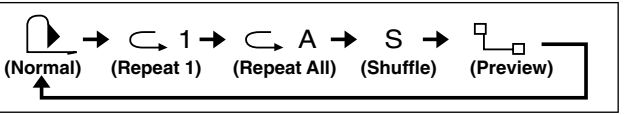
For fast forward:
Hold down the ►►I button.

For fast reverse:
Hold down the I◄◄ button.
Note:
Normal playback will resume when the I◄◄ or ►►I button is released.

Advanced playback

■ Repeat play or shuffle play or preview

Whilst in stop mode, press the Menu button repeatly until the desired play mode appears.

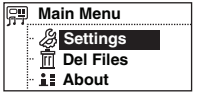


or

1 **Press ►II / ⏻ button to turn the power on.**

2 **Hold down the Menu button for 1 second or more.**

3 **Within 20 seconds, press I◄◄ or ►►I button to select “Settings” and press Menu button.**



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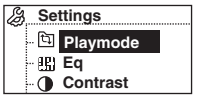
4 **Within 20 seconds, press ⏮ or ⏭ button to select "Playmode" and press Menu button.**



5 **Within 20 seconds, press ⏮ or ⏭ button to select a play mode setting, press Menu button.**

(*)Normal : Normal playback
Repeat 1 : Repeat one data
Repeat All : Repeat all data
Shuffle : Play all data at random
Preview : Play all data for a 10 seconds

- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

(*) indicates default setting

Note:
The unit plays each data for 10 seconds when play with preview mode.

■ Repeat A-B

You can play the desired portion repeatedly by specifying it during playback.

1 **Whilst playback, press Menu button. This registers the start point (A).**

2 **Press the Menu button again to enter the end point (B).**
This starts A-B repeat from the start point (A) to the end point (B).

3 **Press the Menu button again to return to the previous playback mode.**

Caution:
After perform repeat or preview play, be sure to press ▶II / ⏻ button to stop or pause the playback. Otherwise, it will playback continuously.

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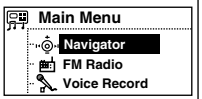
Playing selected data

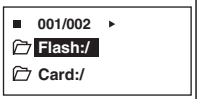
You can select and play the audio data transferred from PC or data recorded with the unit.

1 **Hold down Menu button for 1 second or more.**

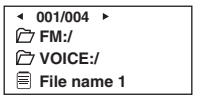
2 **Within 20 seconds, press Menu button to select "Navigator".**



3 **Within 20 seconds, press ⏮ or ⏭ button to select "Flash" or "Card", then press Menu button.**

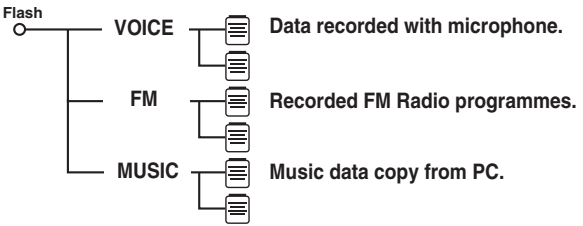


4 **Within 20 seconds, select the data and press ▶II / ⏻ button, playback will start.**



⏮ or ⏭ : Browser for folder or data.
Menu : Select a folder or data.
Volume (+) : Return to the previous level/screen.

■ About folder tree



This product supports:
- Up to 140 folders (including the "VOICE" and "FM" folders).
- Up to 200 files (each folders).
- Up to 30 characters as a folder name.
- Up to 30 characters as a file name.

Playing selected data (continued)

■ Equaliser setting

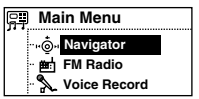
Whilst stop or play mode, press the EQ button repeatly until the desired sound mode appears.

NOR (Normal) → ROCK → POP → JAZZ → CUST (Custom) → NOR

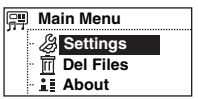
Alternative method to change sound mode.

1 **Press ►II / ⏻ button to turn the power on.**

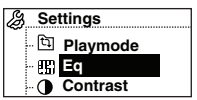
2 **Hold down the Menu button for 1 second or more.**



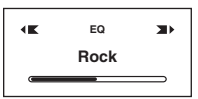
3 **Within 20 seconds, press I◄◄ or ►►I button to select "Settings" and press Menu button.**



4 **Within 20 seconds, press I◄◄ or ►►I button to select "Eq" and press Menu button.**



5 **Within 20 seconds, press I◄◄ or ►►I button to select an equaliser setting, press Menu button.**



(*)Normal : The sound is not modified
Rock : For rock music
Pop : For pop music
Jazz : For jazz
Custom : Sound quality can be customise (see page 16)

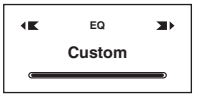
- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

Note:
Distortion may occur depending on the equaliser setting.
In this case, change the type or turn down the volume.
(*) indicates default setting.

■ Customising sound quality

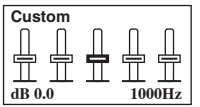
1 **Perform step 1 - 4 on page 16.**

2 **Within 20 seconds, press I◄◄ or ►►I button to select "Custom" and press Menu button.**

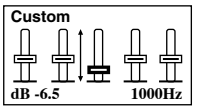


3 **Within 20 seconds, press I◄◄ or ►►I button to select the frequency and press ►II button.**

80Hz: Bass setting
250Hz: ↑
1000Hz: Midrange setting
4000Hz: ↓
12000Hz: Treble setting



4 **Within 20 seconds, press Volume (– or +) button to increase or decrease the gain level.**



5 **Repeat steps 3 and 4 to adjust each frequency.**

6 **Within 20 seconds, press Menu button.**

- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

Note:
The "Custom" settings will remain in the memory even after you switch to another equaliser mode.

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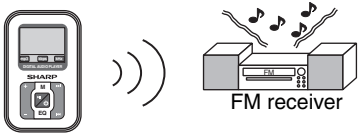
FM transmitter function

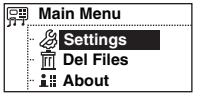
This unit can be use as a FM transmitter
You can enjoys music sound at FM receiver by playback at the unit.



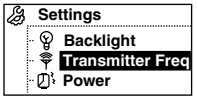
1 **Press ►II / ⏻ button to turn the power on.**

2 **Hold down the Menu button for 1 second or more.**

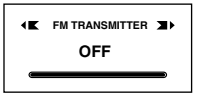
3 **Within 20 seconds, press I◄◄ or ►►I button to select "Settings" and press Menu button.**



4 **Within 20 seconds, press I◄◄ or ►►I button to select "Transmitter Frequency" and press Menu button to enter transmitter frequency setup.**

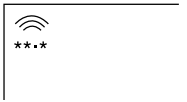


5 **Within 20 seconds, press I◄◄ or ►►I to select the desired transmission frequency then press Menu button.**



OFF → 88.1Mhz → 88.3Mhz → 88.5Mhz
↑ ↓
89.3Mhz ← 89.1Mhz ← 88.9Mhz ← 88.7Mhz

6 **Transmission icon and select frequency (*) will appear on screen (playback window) when transmitter function is setting on.**



- Tune the FM receiver frequency same as transmitter setting.
- The unit playback music can be listening at FM receiver unit. About playing audio data, see page 14.

Notes:

- After unit is power off, the transmitter function will be off when the unit is on back.
- The FM transmitter and FM receiver must be tune into the same frequency.
- Adjust the channel if there is a signal interference. Select any un-interfered channel from 88.1 to 89.3 MHz.
- Transmitter function will automatically off within 1 minute after in the stop or interrupt mode of audio data.
- Keep the distance of the unit much close as possible to FM receiver aerial for more sensitivity receiving.
- Select the frequency of FM transmitter which not near to FM broadcasting station for reducing noise or signal interference.
- The transmitter function will regulate the volume and transmit to FM receiver by this unit. If a big sound occur at FM receiver even not adjust to maximum volume level, manually decrease the volume level at this unit (FM transmitter).
- Earphones are not required to plug into the unit for FM transmission. The FM transmitter aerial is built inside the unit.

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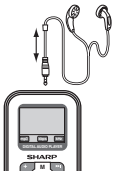
Listening to the FM radio

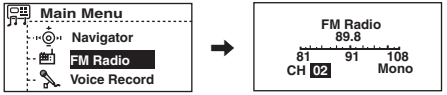
■ Tuning

FM aerial:
The earphones lead works as an FM aerial. Keep it as straight as possible.



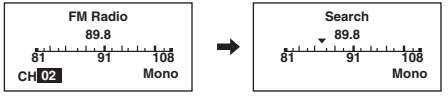
1 **Press the ►II / ⏻ button to turn the power on.**

2 **Hold down the Menu button for 1 second or more. Press ▶▶I button to select "FM Radio", then press the Menu button.**

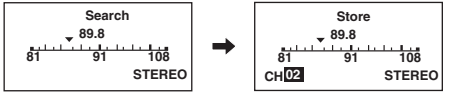


■ Manual Tuning and memorising a station

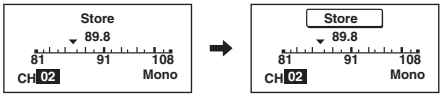
1 **Press ►II / ⏻ button to enter search mode.**



2 **Press I◀◀ or ▶▶I button as many times as required to tune into the desired station. Press and hold down the Menu button for more than 1 second to enter the preset tuning saving mode.**



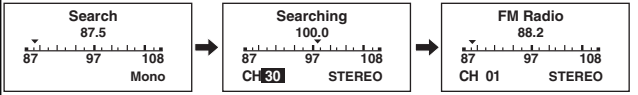
3 **Press I◀◀ or ▶▶I button to select the preset channel number. Press the Menu button to store that station in memory.**



■ Storing station automatically (auto scan)

With this function, the auto tuning memorises the received stations automatically. The unit will stop after scanning the full range of frequencies and storing stations.

1 **Press ►II / ⏻ button to enter search mode. Hold down the ►II / ⏻ button for 1 second or more, auto scan will be started.**



- Scanning will start automatically and the tuner will stop at the first receivable broadcast station.
- The unit receives and stores stations with strong signals.
- Press I◀◀ or ▶▶I button to select the desired preset station.

To exit Tuner mode:
Press Menu button.

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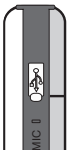
Recording with the built-in microphone

Check the memory status beforehand. If the memory is low, move some data to a PC to make some room.

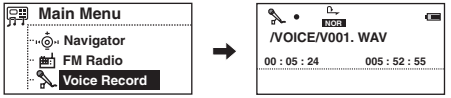
Note:
This microphone is monaural and omni-directional. However, it is recommended to direct it towards the source for better recording.



1 **Press ► II / ⏻ button to turn the power on.**

2 **Hold down the Menu button for 1 second or more.**

3 **Within 20 seconds, press ⏮ or ⏭ button to select "Voice Record", then press Menu button. Recording will be started.**



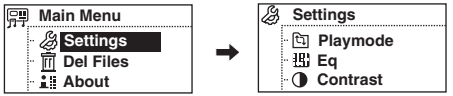
To interrupt recording:
Press ►II / ⏻ button.
To resume recording, press the ► II / ⏻ button again.

To save recording:
Press the Menu button. Data will be saved.

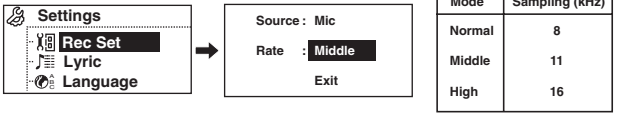
Note:
Data recorded with the built-in microphone are named automatically, ie V001.WAV, V002.WAV... etc.
Newly saved files are numbered sequentially following the largest number among the existing file names. It is recommended to delete or move some files to PC.
For long recording time, "Saving...." indicator will appear after a few seconds (Data saved).

■ Changing sound quality for microphone recording

1 **Hold down the Menu button to enter main menu screen. Within 20 seconds, press the ⏮ or ⏭ button to select "Settings", then press Menu button.**



2 **Within 20 seconds, press the ⏮ or ⏭ button to select "Rec Set", then press Menu button. Press the ⏮ or ⏭ button to select at "Rate", then press Menu button repeatly to change the recording quality.**



3 **To exit record setting screen, press the ⏮ or ⏭ button to select "Exit", then press Menu button.**

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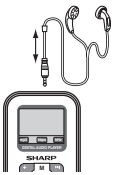
Recording from the FM radio

Check the memory status beforehand. If the memory is low, move some data to a PC to make some room.

The earphones lead works as an FM aerial. Keep it as straight as possible.



1 **Tune in to the desired station.**

2 **Hold down EQ button for 1 second or more. Recording will be started.**

To interrupt recording:
Press the ►II / ⏻ button.
To resume recording, press the ►II / ⏻ button again.

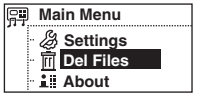
To save recording:
Press the Menu button or EQ button.
Data will be saved.

Note:
Data recorded from the FM radio are named automatically, ie F001.WAV, F002.WAV... etc.
Newly saved files are numbered sequentially following the largest number among the existing file names. It is recommended to delete or move some files to PC.
For long recording time, “Saving...” indicator will appear after a few seconds (Data saved).

Deleting selected data

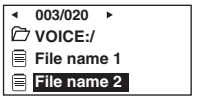
1 **Hold down Menu button for 1 second or more.**

2 **Within 20 seconds, press I◄◄ or ►►I button to select “Del Files”, then press Menu button.**

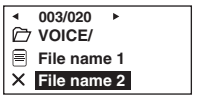


3 **Press I◄◄ or ►►I button to select “Flash” or “Card”, then press Menu button.**

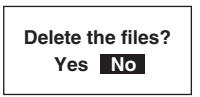
4 **Press I◄◄ or ►►I button to select “Folder” or “File”, then press Menu button.**



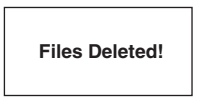
5 **Delete (X) marking will display for selected file(s).**
● To cancel delete (X) marking, press Menu button.



6 **Press the ►II / ⏻ button, a warning note will displayed. Press I◄◄ or ►►I button to select “Yes” or “No”. Select “Yes” if confirmed to delete file(s), then press Menu button.**



7 **File(s) deleted.**



Caution:
Deleted data cannot be restored.

Note:
At “Del Files” mode, display will not able to automatically return to playback screen.

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Changing default settings

You can change the default setting.
1. Press the ►II / ⏻ button to turn the power on.
2. Hold down the Menu button for 1 second or more.
3. Within 20 seconds, press I◄◄ or ►►I button to select “Settings”, then press Menu button.

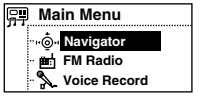
Setting Menu	Selectable parameter (* indicates default settings)	Description
Playmode	Normal* Repeat one Repeat all Shuffle Preview	Adjust of playback mode.
Eq	Normal* Rock Pop Jazz Custom	Adjust of playback sound quality.
Contrast	0/10 I 5/10* I 10/10	To adjust display contrast level.
Backlight	Off 5 secs 10 secs 30 secs* Always	Set backlight lighting time.
Transmitter frequency	Off* 88.1 88.3 88.5 88.7 88.9 89.1 89.3	Set the FM transmitter frequency.
Power	Disable 1 Min 2 Mins 5 Mins* 10 Mins	Set auto-power off time. The unit turns off automatically after a time period in the stop mode. Note: The auto-power off does not work when listening to FM radio.
Rec Set	Source : Mic Rate : Normal Middle* High	Set the microphone recording sound quality.
Lyrics	Always* Off	Display of lyrics when lyrics is available.
Language	English* Russian German French Spanish Italian Chinese TRA (Traditional) Portuguese	Set the display language for the unit.
Factory Setting	No* Yes	Reset the unit to default setting (*).
Exit		Exit setting mode.

■ About auto-power off

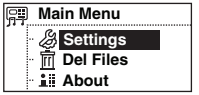
When the auto power off is set, the unit turns off automatically after a time period in the stop or pause mode. (The auto-power off does not work when listening to the FM Radio.)

1 **Press ►II / ⏻ button to turn the power on.**

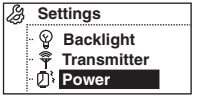
2 **Hold down the Menu button for 1 second or more.**



3 **Within 20 seconds, press I◄◄ or ►►I button to select “Settings” and press Menu button.**



4 **Within 20 seconds, press I◄◄ or ►►I button to select “Power” and press Menu button.**



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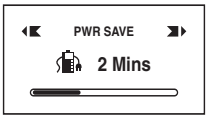
Changing default settings (continued)

5 **Within 20 seconds, press ⏮ or ⏭ button to select a time period, press Menu button.**



Disable : Autopower off does not work.
1-2-5-10 Minutes : In the stop mode, the unit turns off automatically after a set time period.

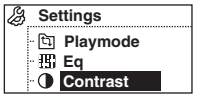
- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

■ Changing the display contrast

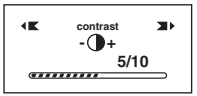
You can change the display contrast.

1 **Perform steps 2 to 3 on page 21.**

2 **Within 20 seconds, press ⏮ or ⏭ button to select "Contrast" and press Menu button.**



3 **Within 20 seconds, press ⏮ or ⏭ button to adjust contrast and press Menu button.**



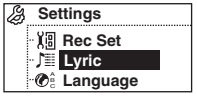
- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

■ Changing the Lyric display

You can off or on the lyric display (Audio Data with LRC only).

1 **Perform steps 2 to 3 on page 21.**

2 **Within 20 seconds, press ⏮ or ⏭ button to select "Lyric" and press Menu button.**



3 **Within 20 seconds, press ⏮ or ⏭ button to off or on the lyric display and press Menu button.**

Off : Lyric not display (off)
Always : Lyric display (on)

- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

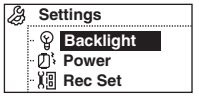
Note:
The name of lyric songs should keep in pace with the name of the song data.
If the present song has the corresponding lyric file, "L" indicator will appear at screen.

■ Changing the backlight lighting time

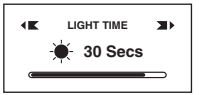
You can change the lighting time of the display backlight.

1 **Perform steps 2 to 3 on page 21.**

2 **Within 20 seconds, press ⏮ or ⏭ button to select "Backlight" and press Menu button.**



3 **Within 20 seconds, press ⏮ or ⏭ button to adjust the lighting time and press Menu button.**



Off : Backlight remains off.
5-10-30 seconds : Backlight illuminates for a set time period.
Always : Backlight remains on.

- **The setting is completed.**
- **The playback screen returns after 20 seconds.**

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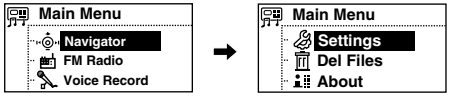
■ Reset the factory setting

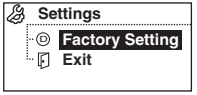
You can reset all function to the factory setting (default).

1 **Hold down the Menu button for 1 second or more.**

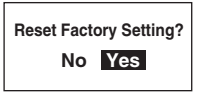
2 **Within 20 seconds, press ⏮ or ⏭ button to select "Settings" and press Menu button.**



3 **Within 20 seconds, press ⏮ or ⏭ button to select "Factory Setting" and press Menu button.**



4 **Within 20 seconds, press ⏮ or ⏭ button to select "Yes" and press Menu button.**



- **Select "No" to cancel.**
- **The playback screen returns after 20 seconds.**

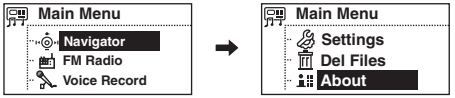
Caution:
This function reset the following setting:
Language, volume, equaliser, repeat play, lyric, FM station, FM auto scan, FM area, FM transmitter, record settings, auto-power off, contrast, backlight.

Checking memory status

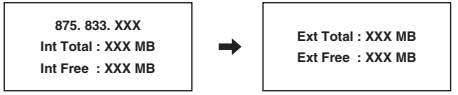
You can check the memory status before starting long hours of recording, etc.

1 **Hold down the Menu button for 1 second or more.**

2 **Within 20 seconds, press ⏮ or ⏭ button to select "About", then press Menu button.**



3 **Firmware version, memory capacity and free space will display. Press ⏮ or ⏭ button to display internal flash memory or SD/MMC.**



Internal Memory

External SD/MMC card memory

Note:
The playback screen returns after 20 seconds.

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Firmware update

■ Installing the update tool

If you use a PC running Windows Millennium Edition, Windows 2000 Professional, Windows XP Professional or Windows XP Home Edition, install the upgrade tool as follows.

1	**Insert the supplied CD-ROM into your CD-ROM drive.**
2	**Select and click "FIRMWARE RECOVERY" on the screen (AutoRun) or** **Open the "Firmware Recovery" folder on the CD-ROM and double-click "setup.exe".**
3	**Click the "Next" button.** The "License Agreement" screen appears.
4	**Click the "accept" and "Next" button.** The "Choose Destination Location" screen appears.
5	**Click the "Next" button.** The "Select Program Folder" screen appears.
6	**Click the "Next" button.** The "Ready to Install the Program" screen appears.
7	**Click the "Install" button.** When the installation is completed, the "Install Shield Wizard Complete" screen appears.
8	**Click the "Finish" button.**

■ Updating the firmware

If you have update firmware from website, follow below procedure.

1	**Decompress the downloaded file.**
2	**Replace the file in "C:\Program Files\SHARP\WA-TR30_300" with the decompressed file.**
3	**Connect the unit to a PC with the USB cable.**
4	**Start the update tool.** From the "Start" menu, click "All Programs", "WA-TR30_300 MP3 Audio player" and then "Firmware Download".
5	**Click the "Start" button.** ● Check the box of "Format Data Area". All the data will be deleted. Move important data to a PC before updating the firmware. ● Update starts.

Troubleshooting

Many potential "problems" can be resolved by the owner without calling a service technician. If something seems to be wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

The unit does not turn on.
- Is the battery exhausted?
- Is the unit in the hold mode?
- Has condensation formed inside the unit?
- Is the unit being influenced by mechanical shock or by static electricity?

No sound is heard from the earphones.
- Is the volume set too low?
- Are the earphones correctly plugged in?

When the buttons are pressed, the unit does not respond.
- Is there playable audio data on the unit?
- Is the unit in the hold mode?
- Is the battery exhausted?
- Is the unit connected to a PC with the USB cable?

Sound skipping or loss.
- Is the battery exhausted?

The operation is unstable whilst the PC and the unit are connected.
- Are you using the USB cable that was purchased separately?
- Is the unit correctly connected to the PC?

The USB connection display does not appear.
- Is the unit correctly connected to the PC?

The FM radio makes unusual noises continuously.
- Is a TV or computer near the unit?

The display is difficult to see.
- Is the display contrast too low or too high?

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The FM transmitter does not work.
- Is the FM transmitter is setting on?
- Is the volume set too low?
- Are the frequency of FM transmitter & receiver tunning in same?

FM transmission noises.
- Is the unit bring it close to metal or put on a metal desk?
- Is there a thing intercepting an electric wave generator and an electric wave interfering with an FM electric wave?
- Are you using the frequency that is near to the FM broadcasting station?
- Is the distance of the unit much close to the FM receiver?
- Is there an obstacle intercepting an FM electric wave?
- Is the battery exhausted?

The FM transmission sound distort.
- Is the volume set too high?

■ Resetting the unit

If the unit does not work properly, reset it as follows.
The unit may work properly.

1. Disconnect the USB cable.
2. Remove the battery.
3. Leave the unit completely unpowered for approximately 30 seconds.
4. Insert the battery.
5. Operate the unit.

If the unit still does not work properly, do as follows:
1. Disconnect the USB cable.
2. Remove the battery.
3. Connect the unit to a PC.
4. Proceed to the firmware update procedure (see page 24).
5. Insert the battery.
6. Operate the unit.

Error messages

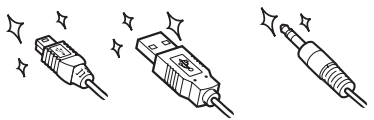
ERROR MESSAGE	MEANING
Shut down...	The battery has run out (Replace the battery)
Insufficient power to operate External Devices	The battery level is low (cannot operate SD/MMC card)
Locked	The HOLD switch is turned ON (Turn off the HOLD switch)

Maintenance

■ Cleaning

When the unit becomes dirty
Clean it with a soft cloth. When the unit is excessively dirty, use a soft cloth dampened in water (external surfaces only).

Clean the plugs and the connecting sockets.
If the plugs or sockets are dirty, noise may be heard.
Cleaning will prevent noise.



Caution:
- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

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Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Power source	DC 1.5 V: AAA size, alkaline battery (LR03 or similar) x 1 DC 5 V: USB bus power
Dimensions	Width: 80 mm (3-3/16") Height: 48 mm (1-7/8") Depth: 18 mm (11/16")
Weight	36 g (1.28 oz.) without battery and SD/MMC card
Sockets	Earphones (impedance: 32 ohms) USB port (Normal type)
Frequency response	20 - 20,000 Hz
Output power	5 mW + 5 mW (earphones: 32 ohms) (maximum output level)
Battery life (Alkaline Battery)	Continuous playback: Approx 6 hours
Frequency range	FM: 87.5 - 108 MHz
Storage media	1 GB Flash Memory (WA-TR30) 2 GB Flash Memory (WA-TR300)
FM transmission Frequency range	88.1 MHz - 89.3 MHz (0.2 MHz range)
Digital Right Management	Windows Media DRM 9
Playback format	MP3 (MPEG-1/2 Audio Layer 3), bit rate: 12 - 320 kbps WMA (Windows Media Audio), bit rate: 64 - 192 kbps WAV (PCM)
Recording format	Voice recording, PCM (sampling frequency: 8 - 16 kHz) FM recording PCM (sampling frequency: 44 kHz)
PC interface	Compatible with USB 2.0 and USB 1.1
System requirements	Pentium 2 - 300 MHz or higher CD-ROM drive 150 MB free hard disc space Microsoft Windows 98 Second Edition/Millennium Edition/2000 Professional/XP Professional/XP Home Edition standard installation/ Mac OSX 10.2.6 above.

Notes:

- A combination of sampling frequency and bit rate differs depending on audio format.
- Actual battery life will vary with use.
- The values are the standard values when the unit is used at an ambient temperature of 25°C (77°F).
- Continuous playback:
  At 128 kbps in MP3 format (earphone output: 0.1mW + 0.1mW, backlight: not set to “Always”, equaliser: set to “Normal”).

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